

ABSTRACT OF THE DISCLOSURE

After the OFDM signal for MMAC is received by a receiving unit, an FFT processing unit converts such OFDM signal into the signal $Y(l, k)$ in the frequency axis direction. A data extracting unit extracts a data signal $Y(l, kd)$ and a pilot extracting unit extracts a pilot signal $Y(l, kp)$. A complex dividing unit divides the extracted pilot signal with a pilot signal $X(l, kp)$ having the identical amplitude and phase as that in the transmitting side. An interpolating unit performs a linear interpolation by using a transmission path response $H(l, kp)$ of the pilot signal in order to calculate the transmission path estimation value $H'(l, k)$ of the data signal. A complex dividing unit divides the extracted data signal with the transmission path estimation value of the data signal in order to calculate the data signal $Y'(l, kd)$ that is compensated in the amplitude and phase.